CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/RS/CEMENT/2013-14

Date: 17.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. R. Sathish (M/s. Sathya Construction),** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Covering Slab and Construction of Cross Drain in Jakkur Plantation road in Ward No.07 in Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KH/WO/300 Dated: 14.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.50 %	-

Note:

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AE-07

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Job No.: CTCE/BBMP/W.No.07/RS/SAND/2013-14 : 17.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Sathish (M/s. Sathya Construction),** Contractor, Bangalore.

Name of Work : Providing Covering Slab and Construction of Cross Drain in Jakkur Plantation road in Ward No.07 in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/300 Dated: 14.02.2014

Date of Testing : 17.02.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	104	5.20	5.20	94.8	90-100
2.36	218	10.90	16.10	83.9	75-100
1.18	499	24.95	41.05	59.0	55-90
600 Micron	426	21.30	62.35	37.7	35-59
300 Micron	497	24.85	87.20	12.8	8-30
150 Micron	209	10.45	97.65	2.4	0-10

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Job No.: CTCE/BBMP/W.No.07/RS/AGG/2013-14 : 17.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Sathish (M/s. Sathya Construction),** Contractor, Bangalore.

Name of Work : Providing Covering Slab and Construction of Cross Drain in Jakkur Plantation road in Ward No.07 in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/300 Dated: 14.02.2014

Date of Testing : 17.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	992	3.97	3.97	96.03	95-100
20	15138	60.55	64.52	35.48	30-70
10	5984	23.94	88.46	11.54	10-35
4.75	2536	10.14	98.60	1.40	0-5

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Job No.: CTCE/BBMP/W.No.07/RS/STEEL/2013-14 17.02.2014

TEST REPORT ON REINFORCEMENT STEEL

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Sathish (M/s. Sathya Construction),** Contractor, Bangalore.

Name of the work : Providing Covering Slab and Construction of Cross Drain in Jakkur Plantation road in Ward No.07 in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/300 Dated: 14.02.2014

Date of Test : 17.02.2014

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	554	13.45	O.K	O.K
2	16	1.28	520	558	13.70	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/RS/WMM/Gradation/2013-14

17.02.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Sathish (M/s. Sathya Construction),** Contractor, Bangalore.

Name of Work : Providing Covering Slab and Construction of Cross Drain in Jakkur Plantation road in Ward No.07 in Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/300 Dated: 14.02.2014

Date of Testing : 17.02.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **25500**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	1020	1020	4.0	96.0	95-100
22.4	5985	7005	27.5	72.5	60-80
11.2	5530	12535	49.2	50.8	40-60
4.75	4495	17030	66.8	33.2	25-40
2.36	3430	20460	80.2	19.8	15-30
0.600	2435	22895	89.8	10.2	8-22
0.075	2320	25215	98.9	1.1	0-8

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Job No.: CTCE/BBMP/W.No.07/RS/CUBE/2013-14 28.03.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. R. Sathish (M/s. Sathya Construction),** Contractor, Bangalore.
Name of the work	: Providing Covering Slab and Construction of Cross Drain in Jakkur Plantation road in Ward No.07 in Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KH/WO/300 Dated: 14.02.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.02.2014	28.03.2014	8.285	494.7	21.99
2	28.02.2014	28.03.2014	8.396	507.3	22.55
3	28.02.2014	28.03.2014	8.471	512.6	22.78

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